Product datasheet for KN220964RB

Zinc transporter 8 (SLC30A8) Human Gene Knockout Kit (CRISPR)

Product data:

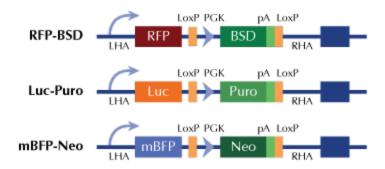|	
Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	Zinc transporter 8
Locus ID:	169026
Components:	**KN220964G1**, Zinc transporter 8 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN220964G2**, Zinc transporter 8 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN220964RBD**, donor DNA containing left and right homologous arms and RFP-BSD functional cassette. **GE100003**, scramble sequence in pCas-Guide vector
Disclaimer:	These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.
RefSeq:	NM_001172811, NM_001172813, NM_001172814, NM_001172815, NM_173851
UniProt ID:	Q8IWU4
Synonyms:	ZnT-8; ZNT8
Summary:	The protein encoded by this gene is a zinc efflux transporter involved in the accumulation of zinc in intracellular vesicles. This gene is expressed at a high level only in the pancreas, particularly in islets of Langerhans. The encoded protein colocalizes with insulin in the secretory pathway granules of the insulin-secreting INS-1 cells. Allelic variants of this gene exist that confer susceptibility to diabetes mellitus, noninsulin-dependent (NIDDM). Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2010]

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Product images:

RFP, Luc, and mBFP will be under native gene promoter